Amendments to the Claims:

Applicants amend the pending claims as described below. All amendments (including withdrawals of specific claims) are made without prejudice to subsequent patent applications. This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (currently amended) An apparatus for softening water, the apparatus comprising: a water supply configured to provide potable water;

at least one nanofiltration filter element connected to the water supply, the nanofiltration filter element configured to reject at least 80 percent of calcium ions from potable water, and configured to:

- a) receive an input flow of hard water at a pressure of below 250 psi,
- b) discharge an output flow of permeate water comprising at least 80 percent of the input flow, and
- c) discharge an output flow of non-permeate water comprising less than 20 percent of the input flow;

wherein the output flow of permeate water has a lower hardness than the output flow of non-permeate water.

2. (canceled) The apparatus for softening water of claim 1, wherein the nanofiltration element is configured to receive an input flow of hard water at a pressure below 250 psi.

- 4. (original) The apparatus for softening water of claim 1, wherein the water flux through the nanofiltration element is at least 75 liters per square meter per hour.
- 5. (original) The apparatus for softening water of claim 1, wherein the nanofiltration element has a calcium ion rejection rate greater than 85 percent.
- 6. (original) The apparatus for softening water of claim 1, wherein the nanofiltration element has a calcium ion rejection rate greater than 90 percent.
- 7. (original) The apparatus for softening water of claim 1, wherein the nanofiltration element is configured to discharge an output flow of permeate water comprising at least 90 percent of the input flow.
- 8. (original) The apparatus for softening water of claim 1, wherein the peak output flow rate of permeate water is less than 10 gallons per minute.
- 9. (original) The apparatus for softening water of claim 1, wherein the nanofiltration filter element has an average pore size that permits the passage of water and monovalent ions but substantially prevents the passage of divalent ions.

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- (original) The apparatus for softening water in accordance with claim 1, wherein the 11. nanofiltration filter element comprises a positively charged membranc.
- (original) The apparatus for softening water in accordance with claim 1, wherein the 12. input flow comprises potable water.
- (original) The apparatus for softening water in accordance with claim 1, wherein the 13. output flow of permeate water has a hardness below 3.5 grains per gallon.
- (original) The apparatus for softening water in accordance with claim 1, wherein the 14. apparatus is configured and arranged to have an output flow of permeate water of 200 gallons or more per 24-hour period.
- 15. (canceled) Water softened using the apparatus of claim 1.
- 16. (currently amended) An apparatus for softening water, the apparatus comprising: a water supply configured to provide potable water.

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at least one nanofiltration filter element connected to the water supply, the nanofiltration filter element configured to reject at least 85 percent of divalent hardness ions from potable water, and configured to:

- a) receive an input flow of hard water at a pressure of below 250 psi,
- b) discharge an output flow of permeate water comprising at least 90 percent of the input flow, and

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c) discharge an output flow of non-permeate water comprising less than 10 percent of the input flow;

wherein the output flow of permeate water has a lower hardness than the output flow of non-permeate water.

- (original) The apparatus for softening water of claim 16, comprising one nanofiltration 17. element.
- 18. (original) The apparatus for softening water of claim 16, comprising two or more nanofiltration elements.
- 19. (original) The apparatus for softening water of claim 16, wherein the nanofiltration element has a rejection rate of greater than 90 percent.
- 20. (original) The apparatus for softening water of claim 16, wherein the apparatus has a water recovery rate of at least 90 percent.

- 21. (original) The apparatus for softening water of claim 16, wherein the peak flow rate is from 5 to 10 gallons per minute.
- 22. (original) The apparatus for softening water of claim 16, wherein the nanofiltration element has a molecular weight cut-off of 20 to 500.
- 23. (original) The apparatus for softening water of claim 16, wherein the nanofiltration filter element has an average pore size that permits the passage of water and monovalent ions but substantially prevents the passage of divalent ions.
- 24. (original) The apparatus for softening water in accordance with claim 16, wherein the apparatus does not substantially increase the total salt levels relative to the input flow of water.
- 25. (original) The apparatus for softening water in accordance with claim 16, wherein the input flow is provided at a pressure of less than 200 pounds per square inch.
- 26. (original) The apparatus for softening water in accordance with claim 16, wherein the nanofiltration filter element comprises a positively charged membrane.
- 27. (original) The apparatus for softening water in accordance with claim 16, wherein the input flow comprises potable water.

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- (original) The apparatus for softening water in accordance with claim 16, wherein the 28. output flow of permeate water has a hardness below 3.5 grains per gallon.
- (original) The apparatus for softening water in accordance with claim 16, wherein the 29. apparatus is configured and arranged to have an output flow of permeate water of 200 gallons or more per 24 hour period.
- 30. (canceled) Water softened using the apparatus of claim 16.
- 31. (currently amended) A method for softening water, the method comprising: providing a source of potable water;

providing at least one nanofiltration filter element in fluid communication with the source of potable water, the nanofiltration filter element configured to reject at least 80 percent of calcium ions from potable water;

receiving from the source of potable water an input flow of potable water having at least 2 grains of hardness per gallon;

discharging a first output flow of permeate water comprising at least 80 percent of the input flow, and which has passed through the nanofiltration filter; and

discharging a second output flow of non-permeate water comprising less than 20 percent of the input flow, and which has not passed through the nanofiltration filter;

wherein the output flow of permeate water has a lower hardness than the output flow of non-permeate water.

- (original) The method for softening water of claim 31, wherein the nanofiltration filter 32. element has an average pore size that substantially permits the passage of water and monovalent ions but substantially prevents the passage of divalent ions.
- (previously presented) The method for softening water in accordance with claim 31, 33. wherein the method does t substantially increase the total salt levels of the output flows relative to the input flow of water.
- 34. (original) The method for softening water in accordance with claim 31, wherein the input flow is provided at a pressure of less than 200 pounds per square inch.
- (original) The method for softening water in accordance with claim 31, wherein the input 35. flow is provided at a pressure of 140 to 200 pounds per square inch.
- 36. (original) The method for softening water in accordance with claim 31, wherein the nanofiltration filter element comprises a positively charged membrane.
- 37. (original) The method for softening water in accordance with claim 31, wherein the output flow of permeate water contains greater than 90 percent of the input flow.
- (original) The method for softening water in accordance with claim 31, wherein the 38. output flow of permeate water has a hardness below 3.5 grains per gallon.

- 39. (original) The method for softening water in accordance with claim 31, wherein the method is configured and arranged to have an output stream of permeate water of 200 gallons or more per 24 hour period.
- 40. (canceled) Water softened using the method of claim 31.